

Ritchie North Webb Road Industrial Park - Hydrology/Detention Routings - Revised 3-18-02

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*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
*     MAY 1991
*     VERSION 4.0.1E
*     Lahey F77L-EM/32 version 5.01
*     Dodson & Associates, Inc.
*     RUN DATE 03/17/02 TIME 15:51:26
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* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748
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SCANNED

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X   X  XXXXXXX  XXXXX      X
X   X  X      X   X      XX
X   X  X      X           X
XXXXXXX XXXX  X           XXXXX X
X   X  X      X           X
X   X  X      X   X      X
X   X  XXXXXXX  XXXXX      XXX
    
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY, DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1

HEC-1 INPUT

PAGE 1

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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1         ID  RITCHIE NORTH WEBB ROAD INDUSTRIAL PARK
2         ID  WEST BASIN
3         ID  SCS Method - 2,5,10,25,50, & 100 YR Storm Event
4         IT   5 11JAN02   0000   300           2000
5         IO   3   0
6         JR   PREC 1.0000  1.3143  1.5143  1.7714  2.0000  2.2286
          *Diagram
          *

7         KK   B1
8         KM  West Basin (Exist.)
9         BA   .0315
10        PB   3.5
11        IN   60
12        PC   0   0.011  0.022  0.035  0.048  0.063  0.080  0.098  0.120  0.147
13        PC  0.181  0.235  0.663  0.772  0.820  0.854  0.880  0.902  0.921  0.937
14        PC  0.952  0.965  0.978  0.989  1.000
15        UD   .25
16        LS   0   84
          *

17        KK   B1
18        KM  West Basin (Developed)
19        BA   .0347
20        UD   .15
21        LS   0   91
          *

22        KK   Pond
23        KM  Detention Pond
24        RS   1   ELEV  214.5
25        SA   1   1.1   1.2   1.3   1.4   1.5
26        SE  214.5  215   216   217   218   219
    
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SCANNED

Ritchie North Webb Road Industrial Park - Hydrology/Detention Routings - Revised 3-18-02

27	SL	215.25	1.767	.67	.5
28	SS	217.6	20	3.15	1.5
	*				
29	ZZ				

1 SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW  
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

7	B1	
	.	
17	.	B1
	.	V
	.	V
22	.	Pond

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

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 \* FLOOD HYDROGRAPH PACKAGE (HEC-1) \*  
 \* MAY 1991 \*  
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 \*\*\*\*\*

RITCHIE NORTH WEBB ROAD INDUSTRIAL PARK  
 WEST BASIN  
 SCS Method - 2,5,10,25,50, & 100 YR Storm Event

5 IO OUTPUT CONTROL VARIABLES  
 IPRNT 3 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA  
 NMIN 5 MINUTES IN COMPUTATION INTERVAL  
 IDATE 11JAN 2 STARTING DATE  
 ITIME 0000 STARTING TIME  
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES  
 NDDATE 12JAN 2 ENDING DATE  
 NDTIME 0055 ENDING TIME  
 ICENT 20 CENTURY MARK

COMPUTATION INTERVAL 0.08 HOURS  
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS  
 DRAINAGE AREA SQUARE MILES  
 PRECIPITATION DEPTH INCHES  
 LENGTH, ELEVATION FEET  
 FLOW CUBIC FEET PER SECOND  
 STORAGE VOLUME ACRE-FEET  
 SURFACE AREA ACRES  
 TEMPERATURE DEGREES FAHRENHEIT

JP MULTI-PLAN OPTION  
 NPLAN 1 NUMBER OF PLANS

JR MULTI-RATIO OPTION  
 RATIOS OF PRECIPITATION  
 1.00 1.31 1.51 1.77 2.00 2.23



Ritchie North Webb Road Industrial Park - Hydrology/Detention Routings - Revised 3-18-02

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.56, TOTAL EXCESS = 1.94

PEAK FLOW + (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			24.92-HR
			6-HR	24-HR	72-HR	
+ 20.	12.08	5.	2.	2.	2.	2.
		(INCHES) 1.562	1.936	1.936	1.936	1.936
		(AC-FT) 3.	3.	3.	3.	3.

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION                    B1  
FOR PLAN 1, RATIO = 1.00

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.56, TOTAL EXCESS = 1.94

PEAK FLOW + (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			24.92-HR
			6-HR	24-HR	72-HR	
+ 20.	12.08	5.	2.	2.	2.	2.
		(INCHES) 1.562	1.936	1.936	1.936	1.936
		(AC-FT) 3.	3.	3.	3.	3.

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION                    B1  
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 1.69, TOTAL EXCESS = 2.91

PEAK FLOW + (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			24.92-HR
			6-HR	24-HR	72-HR	
+ 30.	12.00	8.	2.	2.	2.	2.
		(INCHES) 2.325	2.907	2.907	2.907	2.907
		(AC-FT) 4.	5.	5.	5.	5.

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION                    B1  
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 1.75, TOTAL EXCESS = 3.55

PEAK FLOW + (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			24.92-HR
			6-HR	24-HR	72-HR	
+ 36.	12.00	10.	3.	3.	3.	3.
		(INCHES) 2.825	3.546	3.546	3.546	3.546
		(AC-FT) 5.	6.	6.	6.	6.

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION                    B1

Ritchie North Webb Road Industrial Park - Hydrology/Detention Routings - Revised 3-18-02

FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 1.82, TOTAL EXCESS = 4.38

PEAK FLOW + (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
45.	12.00	12.	4.	4.	4.	
		(INCHES)	3.476	4.384	4.384	4.384
		(AC-FT)	6.	7.	7.	7.

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION B1  
FOR PLAN 1, RATIO = 2.00

TOTAL RAINFALL = 7.00, TOTAL LOSS = 1.86, TOTAL EXCESS = 5.14

PEAK FLOW + (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
52.	12.00	14.	4.	4.	4.	
		(INCHES)	4.058	5.140	5.140	5.140
		(AC-FT)	7.	9.	9.	9.

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION B1  
FOR PLAN 1, RATIO = 2.23

TOTAL RAINFALL = 7.80, TOTAL LOSS = 1.90, TOTAL EXCESS = 5.90

PEAK FLOW + (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
59.	12.00	16.	5.	5.	5.	
		(INCHES)	4.641	5.903	5.903	5.903
		(AC-FT)	8.	10.	10.	10.

CUMULATIVE AREA = 0.03 SQ MI

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\* \*  
17 KK \* B1 \*  
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West Basin (Developed)

SUBBASIN RUNOFF DATA

19 BA SUBBASIN CHARACTERISTICS  
TAREA 0.03 SUBBASIN AREA

PRECIPITATION DATA

10 PB STORM 3.50 BASIN TOTAL PRECIPITATION



Ritchie North Webb Road Industrial Park - Hydrology/Detention Routings - Revised 3-18-02

+	29.	12.00		8.	2.	2.	2.
			(INCHES)	2.010	2.541	2.541	2.541
			(AC-FT)	4.	5.	5.	5.

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION                    B1  
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 1.01, TOTAL EXCESS = 3.59

PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW	
			6-HR	24-HR	72-HR
+	(CFS)	(HR)			24.92-HR
			(CFS)		
+	40.	12.00	10.	3.	3.
			(INCHES)	2.813	3.595
			(AC-FT)	5.	7.

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION                    B1  
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 1.03, TOTAL EXCESS = 4.27

PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW	
			6-HR	24-HR	72-HR
+	(CFS)	(HR)			24.92-HR
			(CFS)		
+	47.	12.00	12.	4.	4.
			(INCHES)	3.323	4.274
			(AC-FT)	6.	8.

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION                    B1  
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 1.05, TOTAL EXCESS = 5.15

PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW	
			6-HR	24-HR	72-HR
+	(CFS)	(HR)			24.92-HR
			(CFS)		
+	56.	12.00	15.	5.	5.
			(INCHES)	3.978	5.153
			(AC-FT)	7.	10.

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION                    B1  
FOR PLAN 1, RATIO = 2.00

TOTAL RAINFALL = 7.00, TOTAL LOSS = 1.06, TOTAL EXCESS = 5.94

PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW	
			6-HR	24-HR	72-HR
+	(CFS)	(HR)			24.92-HR

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		(CFS)				
+	64.	12.00	17.	6.	5.	5.
		(INCHES)	4.559	5.939	5.939	5.939
		(AC-FT)	8.	11.	11.	11.

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION B1  
FOR PLAN 1, RATIO = 2.23

TOTAL RAINFALL = 7.80, TOTAL LOSS = 1.07, TOTAL EXCESS = 6.73

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW	
			24-HR	72-HR
+	(CFS)	(HR)	6-HR	24.92-HR

		(CFS)			
+	72.	12.00	19.	6.	6.
		(INCHES)	5.141	6.727	6.727
		(AC-FT)	10.	12.	12.

CUMULATIVE AREA = 0.03 SQ MI

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*      *
22 KK  * Pond *
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Detention Pond

HYDROGRAPH ROUTING DATA

24 RS	STORAGE ROUTING					
	NSTPS	1	NUMBER OF SUBREACHES			
	ITYP	ELEV	TYPE OF INITIAL CONDITION			
	RSVRIC	214.50	INITIAL CONDITION			
	X	0.00	WORKING R AND D COEFFICIENT			
25 SA	AREA	1.0	1.1	1.2	1.3	1.4 1.5
26 SE	ELEVATION	214.50	215.00	216.00	217.00	218.00 219.00
27 SL	LOW-LEVEL OUTLET					
	ELEVL	215.25	ELEVATION AT CENTER OF OUTLET			
	CAREA	1.77	CROSS-SECTIONAL AREA			
	COQL	0.67	COEFFICIENT			
	EXPL	0.50	EXPONENT OF HEAD			
28 SS	SPILLWAY					
	CREL	217.60	SPILLWAY CREST ELEVATION			
	SPWID	20.00	SPILLWAY WIDTH			
	COQW	3.15	WEIR COEFFICIENT			
	EXPW	1.50	EXPONENT OF HEAD			

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COMPUTED STORAGE-ELEVATION DATA

STORAGE	0.00	0.52	1.67	2.92	4.27	5.72
ELEVATION	214.50	215.00	216.00	217.00	218.00	219.00

COMPUTED OUTFLOW-ELEVATION DATA

Ritchie North Webb Road Industrial Park - Hydrology/Detention Routings - Revised 3-18-02

OUTFLOW	0.00	0.00	8.04	8.59	9.22	9.95	10.81	11.82	13.05	14.56
ELEVATION	214.50	215.25	215.97	216.07	216.19	216.35	216.55	216.80	217.14	217.60
OUTFLOW	14.83	15.91	18.39	22.84	29.82	39.91	53.67	71.69	94.52	122.75
ELEVATION	217.62	217.67	217.74	217.84	217.97	218.12	218.30	218.51	218.74	219.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	0.00	0.52	0.80	1.64	1.67	1.76	1.91	2.10	2.34	2.67
OUTFLOW	0.00	0.00	0.00	8.04	8.22	8.59	9.22	9.95	10.81	11.82
ELEVATION	214.50	215.00	215.25	215.97	216.00	216.07	216.19	216.35	216.55	216.80
STORAGE	2.92	3.10	3.72	3.75	3.82	3.92	4.06	4.23	4.27	4.45
OUTFLOW	12.56	13.05	14.56	14.83	15.91	18.39	22.84	29.82	31.68	39.91
ELEVATION	217.00	217.14	217.60	217.62	217.67	217.74	217.84	217.97	218.00	218.12
STORAGE	4.70	5.00	5.34	5.72						
OUTFLOW	53.67	71.69	94.52	122.75						
ELEVATION	218.30	218.51	218.74	219.00						

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HYDROGRAPH AT STATION      Pond  
FOR PLAN 1, RATIO = 1.00

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 10.	12.33	(INCHES)	6.	2.	2.	2.
		(AC-FT)	1.676	2.080	2.080	2.080
			3.	4.	4.	4.
PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)					
+ 2.	12.33		2.	1.	1.	1.
PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)					
+ 216.42	12.33		215.87	215.14	215.12	215.12

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION      Pond  
FOR PLAN 1, RATIO = 1.31

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 13.	12.42	(INCHES)	9.	3.	3.	3.
		(AC-FT)	2.515	3.124	3.124	3.124
			5.	6.	6.	6.
PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)					
+ 3.	12.42		2.	1.	1.	1.
PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)					
+ 217.16	12.42		216.37	215.32	215.29	215.29

CUMULATIVE AREA = 0.03 SQ MI

Ritchie North Webb Road Industrial Park - Hydrology/Detention Routings - Revised 3-18-02

***		***		***		***		***	
HYDROGRAPH AT STATION Pond									
FOR PLAN 1, RATIO = 1.51									
PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW					
+ (CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR			
		(CFS)							
+ 15.	12.42		11.	4.	3.				3.
		(INCHES)	3.004	3.797	3.797				3.797
		(AC-FT)	6.	7.	7.				7.
PEAK STORAGE	TIME			MAXIMUM AVERAGE STORAGE					
+ (AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR			
+ 4.	12.42		3.	1.	1.				1.
PEAK STAGE	TIME			MAXIMUM AVERAGE STAGE					
+ (FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR			
+ 217.63	12.42		216.74	215.44	215.41				215.41
		CUMULATIVE AREA =		0.03 SQ MI					

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HYDROGRAPH AT STATION Pond									
FOR PLAN 1, RATIO = 1.77									
PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW					
+ (CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR			
		(CFS)							
+ 31.	12.25		14.	4.	4.				4.
		(INCHES)	3.640	4.669	4.669				4.669
		(AC-FT)	7.	9.	9.				9.
PEAK STORAGE	TIME			MAXIMUM AVERAGE STORAGE					
+ (AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR			
+ 4.	12.25		3.	1.	1.				1.
PEAK STAGE	TIME			MAXIMUM AVERAGE STAGE					
+ (FEET)	(HR)		6-HR	24-HR	72-HR	24.92-HR			
+ 217.99	12.25		216.95	215.54	215.50				215.50
		CUMULATIVE AREA =		0.03 SQ MI					

***		***		***		***		***	
HYDROGRAPH AT STATION Pond									
FOR PLAN 1, RATIO = 2.00									
PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW					
+ (CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR			
		(CFS)							
+ 46.	12.17		16.	5.	5.				5.
		(INCHES)	4.194	5.448	5.448				5.448
		(AC-FT)	8.	10.	10.				10.
PEAK STORAGE	TIME			MAXIMUM AVERAGE STORAGE					
+ (AC-FT)	(HR)		6-HR	24-HR	72-HR	24.92-HR			
+ 5.	12.17		3.	1.	1.				1.

**Ritchie North Webb Road Industrial Park - Hydrology/Detention Routings - Revised 3-18-02**

PEAK STAGE + (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
218.20	12.17	217.07	215.61	215.57	215.57

CUMULATIVE AREA = 0.03 SQ MI

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HYDROGRAPH AT STATION Pond  
FOR PLAN 1, RATIO = 2.23

PEAK FLOW + (CFS)	TIME (HR)	(CFS)	MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
57.	12.17		18.	6.	6.	6.
		(INCHES)	4.735	6.229	6.229	6.229
		(AC-FT)	9.	12.	12.	12.

PEAK STORAGE + (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
5.	12.17	3.	1.	1.	1.

PEAK STAGE + (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
218.34	12.17	217.18	215.67	215.63	215.63

CUMULATIVE AREA = 0.03 SQ MI

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS  
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES  
TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION					
					RATIO 1	RATIO 2	RATIO 3	RATIO 4	RATIO 5	RATIO 6
					1.00	1.31	1.51	1.77	2.00	2.23
HYDROGRAPH AT	B1	0.03	1	FLOW	20.	30.	36.	45.	52.	59.
+				TIME	12.08	12.00	12.00	12.00	12.00	12.00
HYDROGRAPH AT	B1	0.03	1	FLOW	29.	40.	47.	56.	64.	72.
+				TIME	12.00	12.00	12.00	12.00	12.00	12.00
ROUTED TO	Pond	0.03	1	FLOW	10.	13.	15.	31.	46.	57.
+				TIME	12.33	12.42	12.42	12.25	12.17	12.17
				** PEAK STAGES IN FEET **						
				1 STAGE	216.42	217.16	217.63	217.99	218.20	218.34
				TIME	12.33	12.42	12.42	12.25	12.17	12.17

\*\*\* NORMAL END OF HEC-1 \*\*\*